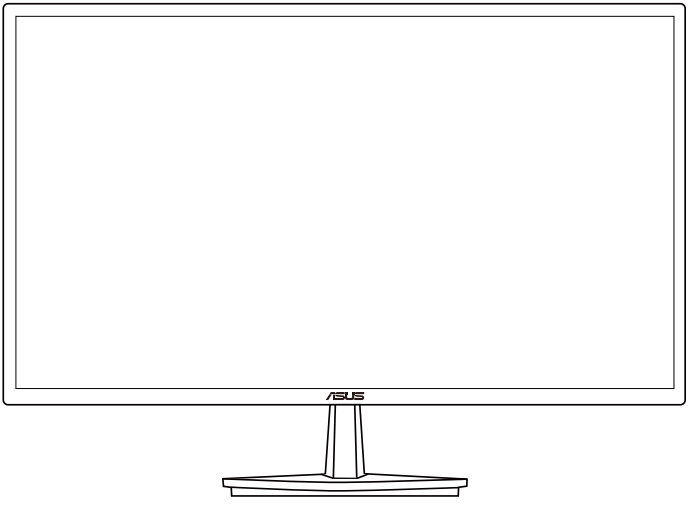
VN247 Series
LCD Monitor

User Guide



HIGH-DEFINITION MULTIMEDIA INTERFACE

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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 ~ 240V AC.
- The socket-outlet shall be installed near the equipment and shall be easily accessible
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide

WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Information that you MUST follow to complete a task.

NOTE: Tips and additional information to aid in completing a task.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**

   The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to **http://www.asus.com**

2. **Optional documentation**

   Your product package may include optional documentation that may have been added by your dealer. These documents are not part of the standard package.

1.1 Welcome!

Thank you for purchasing the ASUS® LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the monitor brings you!

1.2 Package contents

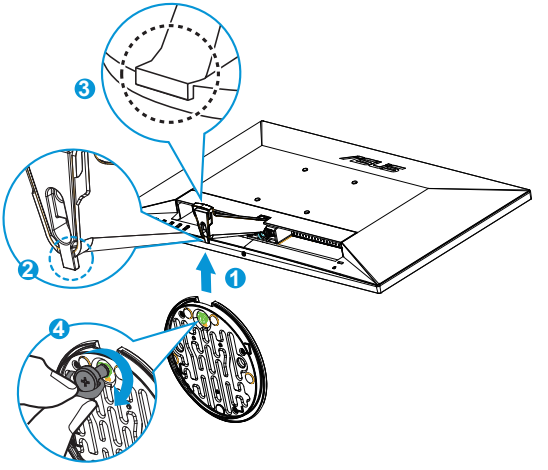
Check your package for the following items:

- ✓ LCD Monitor
- ✓ Monitor Base
- ✓ Quick Start Guide
- ✓ Warranty Card
- ✓ 1x Power Cord
- ✓ 1x VGA Cable
- ✓ 1x HDMI-DVI Cable
- ✓ 1x Audio Cable

- If any of the above items is damaged or missing, contact your retailer immediately.

1.3 Assembling the monitor base

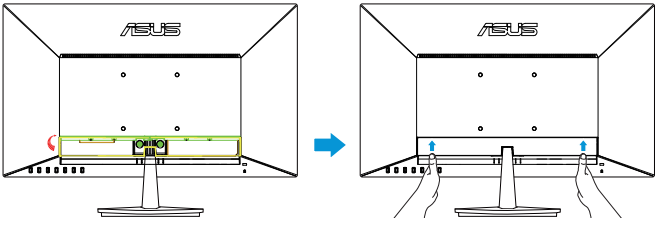
1. Attach the base to the arm.
2. Beware to align the latch to the notch on the base.
3. The end of the arm will slightly protrude from the base. No need to push it in.
4. Screw the base to the arm tightly.



- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.

1.4 Connect cables

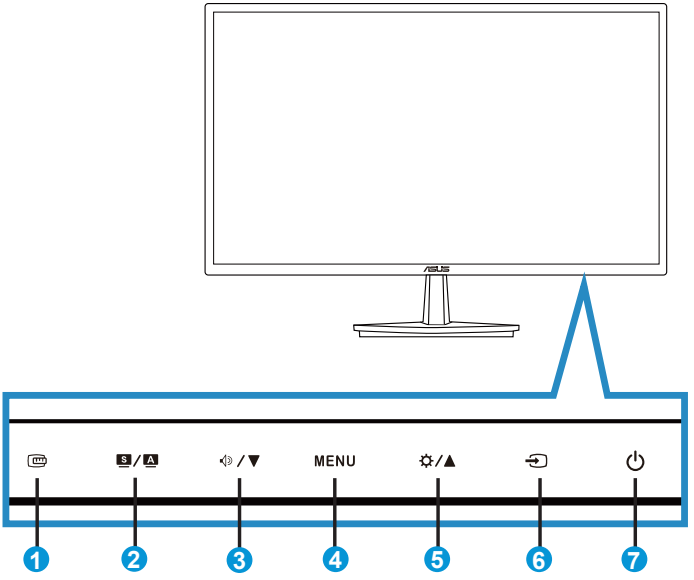
Connect the cables you need based on chapter 1.5.2, page 1-5.



- Flip upward the IO port cover to connect cables. After connected cables, replace the cover and carefully push it upward to its original position with both thumbs at both sides of the cover.

1.5 Monitor introduction

1.5.1 Front of the LCD monitor

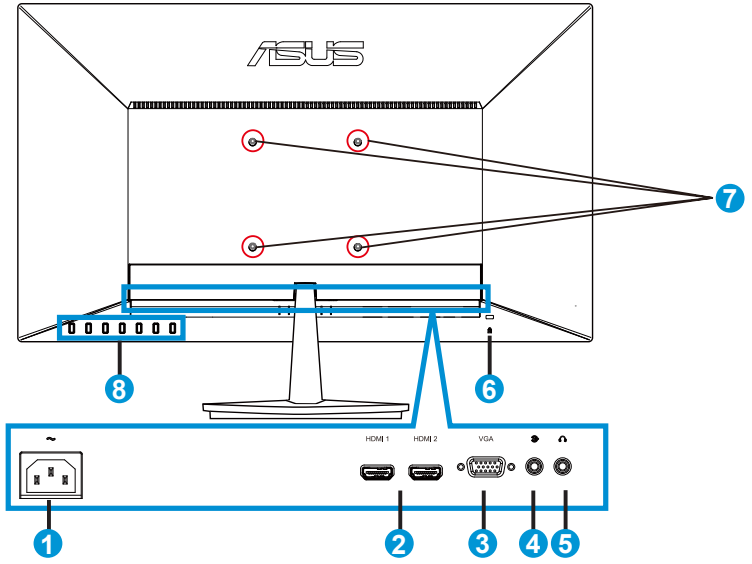


1. QuickFit Button:
   - This is a hotkey to activate the **QuickFit** function designed for alignment.
   - The **QuickFit** function contains 7 pages of common grid patterns, paper sizes, and photo sizes. See page 1-6 for details.
2. S / A Button:
   - Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for 2-4 seconds (for VGA mode only).
   - Use this hotkey to switch from eight video preset modes (**Scenery**, **Standard**, **Theater**, **Game**, **Night View**, **sRGB**, **Reading**, and **Darkroom** Mode) with SplendidPlus Video Intelligence Technology.
   - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
3. / ▼ Button:
   - Press this button to decrease the value of the function selected or move to the next function.
   - This is also a hotkey for Volume adjustment.

4. MENU Button:
   - Press this button to enter the OSD menu.
   - Press this button to enter/select the icon (function) highlighted while the OSD is activated.
   - Press this button over five seconds to enable or disable the key lock function.
5. ☼ / ▲ Button:
   - Press this button to increase the value of the function selected or move to the previous functions.
   - This is also a hotkey for Brightness adjustment.
6. Input Select Button:
   - Use this hotkey to switch from VGA, HDMI1, or HDMI2 input signal.
7. Power Button/Power Indicator:
   - Press this button to turn the monitor on/off.
   - The color definition of the power indicator is as the below table.

Status	Description
White	ON
Amber	Standby mode
OFF	OFF

1.5.2 Rear of the LCD monitor

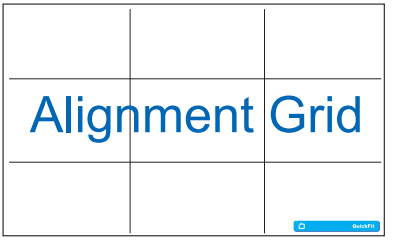


1. AC-IN port
2. HDMI port
3. VGA port
4. Audio - in Port
5. Earphone - out Port
6. Kensington Lock
7. Screw Holes for VESA Wall Mount
8. Control buttons

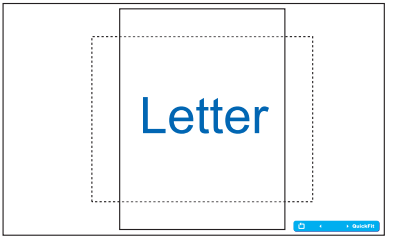
1.5.3 QuickFit Function

The QuickFit function contains three patterns: (1) Grid (2) Paper size (3) Photo size.

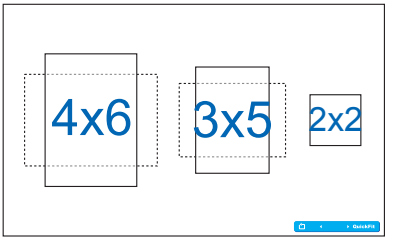
1. Grid pattern: Facilitates designers and users to organize content and layout on one page and achieve a consistent look and feel.

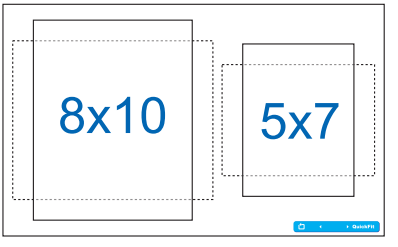


2. Paper size: Provides users to view their documents in real size on the screen.



3. Photo size: Provides photographers and other users to accurately view and edit their photos in real size on the screen.



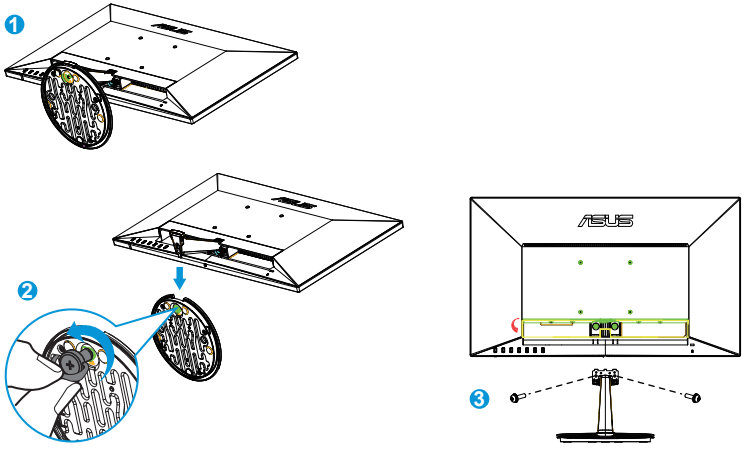


2.1 Detaching the arm/stand (for VESA wall mount)

The detachable stand of this monitor is specially designed for VESA wall mount.

1. Disconnect power and signal cables. Carefully put the front of the monitor face down on a clean table.
2. Use your fingers to loosen the screw located at the bottom of the base, and remove the base from the stand.
3. Or you may directly use a screwdriver to remove the screws that secure the stand to the monitor, and detach the stand from the monitor.

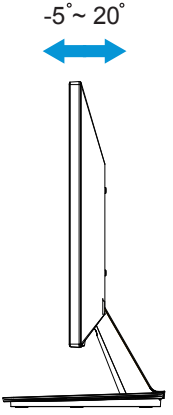
- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.
- Hold the stand while removing the screws.



- The VESA wall mount kit (100 x 100 mm) is purchased separately.
- Use only the UL Listed Wall Mount Bracket with minimum weight/load 22.7kg (Screw size: M4 x 10 mm).

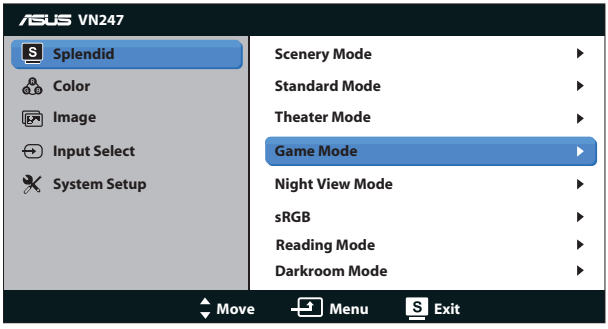
2.2 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling while changing its angle.
- You can adjust the monitor's angle from -5˚ to 20˚.



3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

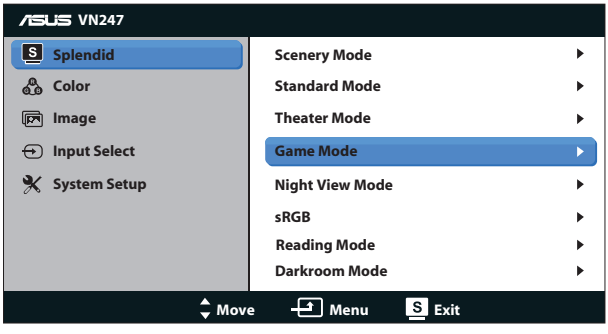


1. Press the MENU button to activate the OSD menu.
2. Press ▼ and ▲ to navigate through the functions. Highlight and activate the desired function by pressing the MENU button. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the MENU button.
3. Press ▼ and ▲ to change the settings of the selected function.
4. To exit the OSD menu, press the S / A button. Repeat step 2 and step 3 to adjust any other function.

3.1.2 OSD Function Introduction

1. Splendid

This function contains eight-functions that you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

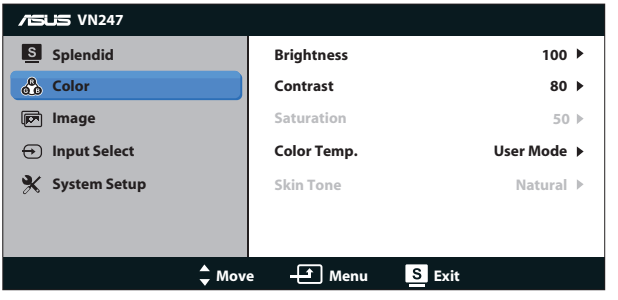


- **Scenery Mode**: This is the best choice for scenery photo displaying with SplendidPlus Video Intelligence Technology.
- **Standard Mode**: This is the best choice for document editing with SplendidPlus Video Intelligence Technology.
- **Theater Mode**: This is the best choice for movie watching with SplendidPlus Video Intelligence Technology.
- **Game Mode**: This is the best choice for game playing with SplendidPlus Video Intelligence Technology.
- **Night View Mode**: This is the best choice for playing dark-scene game or watching dark-scene movie with SplendidPlus Video Intelligence Technology.
- **sRGB Mode**: This is the best choice for viewing photos and graphics from PCs.
- **Reading Mode**: This is the best choice for book reading with SplendidPlus Video intelligence Technology.
- **Darkroom Mode**: This is the best choice for a weak ambient light environment with SplendidPlus Video intelligence Technology.

- In the Standard Mode, the Saturation, SkinTone, Sharpness, and ASCR functions are not user-configurable.
- In the sRGB, the Saturation, Color Temp., SkinTone, Sharpness, Brightness, Contrast and ASCR functions are not user-configurable.

2. Color

Select the image color you like from this function.



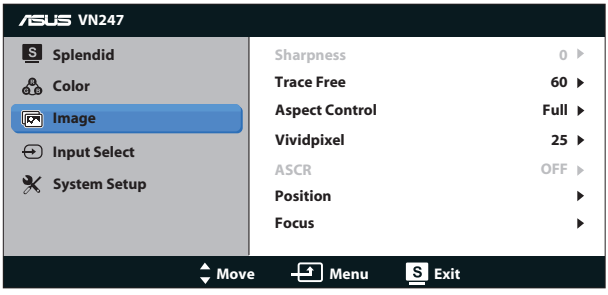
- **Brightness**: The adjusting range is from 0 to 100. The ☼ / ▲ button is also a hotkey to activate this function.
- **Contrast**: The adjusting range is from 0 to 100. The ◑ / ▼ button is also a hotkey to activate this function.
- **Saturation**: The adjusting range is from 0 to 100.

- **Color Temp.**: Contains three preset color modes (**Cool**, **Normal**, **Warm**) and one **User** Mode.
- **Skin Tone**: Contains three color modes including **Reddish**, **Natural**, and **Yellowish**.

- In the User Mode, colors of R (Red), G (Green), and B (Blue) are user-configurable; the adjusting range is from 0 ~ 100.

3. Image

You can adjust the image Sharpness, Trace Free, Aspect Control, ASCR, Position (VGA only), and Focus (VGA only) from this main function.

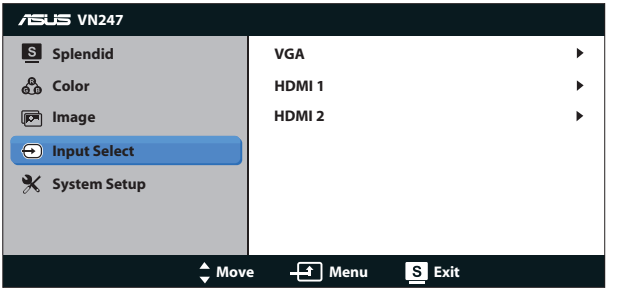


- **Sharpness**: Adjusts the picture sharpness. The adjusting range is from 0 to 100.
- **Trace Free:** Speeds up the response time by Over Drive technology. The adjusting range is from lower 0 to faster 100.
- **Aspect Control**: Adjusts the aspect ratio to "**Full**", "**4:3**","**Overscan**".
- **Vividpixel**: ASUS Exclusive Technology that brings lifelike visuals for crystal-clear and detail-oriented enjoyment. The adjusting range is from 0 to 100.
- **ASCR**: Select **ON** or **OFF** to enable or disable dynamic contrast ratio function.
- **Position**: Adjusts the horizontal position (**H-Position**) and the vertical position (**V-Position**) of the image. The adjusting range is from 0 to 100 (Only available for VGA input).
- **Focus**: Reduces Horizonal-line noise and Vertical-line noise of the image by adjusting (**Phase**) and (**Clock**) separately. The adjusting range is from 0 to 100 (Only available for VGA input).

- 4:3 is only available when input source is in 4:3 format. OverScan is only available for the HDMI input source.
- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

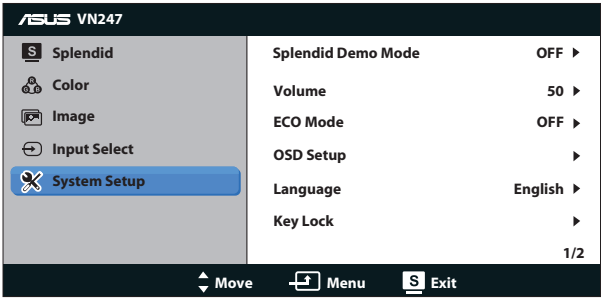
4. Input Select

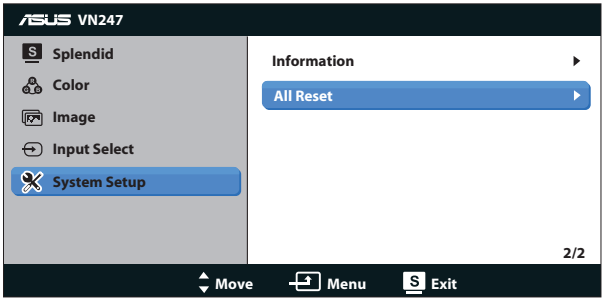
Select the input source from **VGA**, **HDMI 1**, or **HDMI 2** input signal.



5. System Setup

Adjusts the system configuration.





- **Splendid Demo Mode**: Activate the demo mode for the Splendid function.
- **Volume:** Adjust the earphone or speaker output volume level. The adjusting range is from 0 to 100.
- **ECO Mode**: Activate the ecology mode for power saving.
- **OSD Setup**: Adjusts the horizontal postition (**H-Position**), vertical position (**V-Position**), **OSD Timeout**, **DDD/CI**, and **Transparency** of the OSD screen.
- **Language**: Select OSD language. The selections are: **English**, **French**, **German**, **Spanish**, **Italian**, **Dutch**, **Russian**, **Traditional Chinese**, **Simplified Chinese**, **Japanese**, **Persian**, **Thai**, **Indonesian**, **Poland**, **Turkey**, **Portugal**, **Czech**, **Croatia**, **Hungary**, **Romania**, and **Korean**.
- **Key Lock**: To disable all function keys. Press the MENU button over five seconds to cancel the key lock function.
- **Information**: Displays the monitor information.
- **All Reset**: Selects "**Yes**" to revert all settings to the factory default mode.

3.2 Specifications

Model	VN247HA
Panel Size	23.6”W (59.9cm)
Max. Resolution	1920 x 1080
Brightness (Typ.)	250cd/m^2
Intrisinc Contrast Ratio (Typ.)	1000:1
Viewing Angle (CR≤10)	178°(V) ; 178°(H)
Display Colors	16.7 M
Response Time (Typ.)	5 ms (Gray to Gray)
D-Sub input	Yes
HDMI input	Yes
Speaker	Yes
Earphone	Yes
Power Consumption	Power ON < 22.7 W*
Note	*Based on Energy Star 6.0 standard
Power saving mode	< 0.5 W
Power off mode	< 0.5 W
Tilt	-5° ~ +20°
VESA Wall Mounting	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	548.6 x 394.9 x 194.2
Box Dimension (WxHxD)	602 x 478 x 128
Net Weight (Esti.)	3.8 kg
Gross Weight (Esti.)	5.8 kg
Voltage Rating	AC 100~240V(Built-in)

3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	• Press the ⏻ button to check if the monitor is in the ON mode. • Check if the power cord is properly connected to the monitor and the power outlet.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	• Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	• Press the A button for two seconds to automatically adjust the image. • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	• Inspect the signal cable and make sure that none of the pins are bent. • Perform Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	• Press the A button for two seconds to automatically adjust the image (for VGA mode only). • Adjust the Phase and Clock settings via OSD.
No sound or sond is low	• Make sure the audio cable is properly connected to the monitor. • Adjust the volume settings of both your monitor and computer. • Make sure the computer sound card driver is properly installed and activated.

3.4 Supported Timing List

VESA / IBM Modes Support Timing

Resolution	Refresh Rate	Horizontal Frequency
640 x 350	70Hz	31.469KHz
640 x 480	60Hz	31.469KHz
640 x 480	67Hz	35KHz
640 x 480	75Hz	37.5KHz
720 x 400	70Hz	31.469KHz
800 x 600	56Hz	35.156KHz
800 x 600	60Hz	37.879KHz
800 x 600	72Hz	48.077KHz
800 x 600	75Hz	46.875KHz
848 x 480	60Hz	31.02KHz
1024 x 768	60Hz	48.363KHz
1024 x 768	70Hz	56.476KHz
1024 x 768	75Hz	60.023KHz
1152 x 864	75Hz	67.5KHz
1280 x 720	60Hz	44.772KHz
1280 x 800	60Hz	49.702KHz
1280 x 960	60Hz	60KHz
1280 x 1024	60Hz	63.981KHz
1280 x 1024	75Hz	79.976KHz
1366 x 768	60Hz	47.712KHz
1440 x 900	60Hz	55.935KHz
1680 x 1050	60Hz	65.29KHz
1680 x 1050	60Hz	64.674KHz
1920 x 1080	60Hz	67.5KHz
1920 x 1080	60Hz	66.587KHz

HDMI 1.3 CEA-861 Formats Supported Timing

Resolution	Refresh Rate	Horizontal Frequency
640 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
720 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
720 x 576P	50Hz	31.25KHz
1280 x 720P	50Hz	37.5KHz
1280 x 720P	59.94 / 60Hz	44.955 / 45KHz
1440 x 480P	59.94 / 60Hz	31.469 / 31.5KHz
1440 x 576P	50Hz	31.25KHz
1920 x 1080i	50Hz	28.125KHz
1920 x 1080i	59.94 / 60Hz	33.716 / 33.75KHz
1920 x 1080P	50Hz	56.25KHz
1920 x 1080P	59.94 / 60Hz	67.433 / 67.5KHz

*** The modes not listed in the above tables may not be supported. For optimal resolution, we recommend that you choose a mode listed in the above tables.**